Don't work harder. Work smarter.

GRAVITY FEED
HVLP SPRAY GUN with Digital Micrometer

Operating Manual

Revision: AB Issue Date: January 2012 Manual No.: 0-SG-800G0112

We Appreciate Your Business.

Thank you and *congratulations* on choosing Smarter Tools. Now you can stop working harder and start working smarter.

This Operating Manual has been designed to instruct you on the correct use and operation of your Smarter Tools' product. Your satisfaction with this product and its safe operation is our ultimate concern. Therefore please take the time to read the entire manual, especially the Safety Precautions. They will help you to avoid potential hazards that may exist when working with this product.

WARNING!

READ AND UNDERSTAND ALL SAFETY PRECAUTIONS IN THIS MANUAL BEFORE OPERATING. FAILURE TO COMPLY WITH INSTRUCTIONS IN THIS MANUAL COULD RESULT IN PERSONAL INJURY, PROPERTY DAMAGE, AND/ OR VOIDING OF YOUR WARRANTY. SMARTER TOOLS WILL NOT BE LIABLE FOR ANY DAMAGE BECAUSE OF FAILURE TO FOLLOW THESE INSTRUCTIONS.

Operating Manual Number 0-SG-800G0112
SG-800G | Gravity-feed HVLP Spray Gun with Digital Micrometer

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Publication Date: 01.30.12

REMINDER: Keep your dated proof of purchase for warranty purposes! Attach it to this manual or file it for safe keeping.

Operating Instructions

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Description

The 800G Digital HVLP Spray Gun offers superior material flow, atomization and transfer efficiency. It incorporates a Digital Air Micrometer so there is no need for an external gauge. The LED display is located at the top of the gun and not on the handle to maximize its visibility while in use. The 800G is for coating larger surfaces, thick layers and spotted effects. Widely used for primer. Will apply thick primer quickly. Best suited for thicker materials such as flakes, heavy solid materials, primer, primer sealers, polyester primers, varnish, polyurethane, oil base paints, enamels, epoxy, plastic adhesives, floor paving paints, latex (on walls), splatter paints, multi-fleck, etc. HVLP (High Volume Low Pressure) technology provides a higher transfer of materials while reducing bounce-back and overspray. Ideal for spraying heavier materials superior performance for deck, fence, furniture and automotive work. External mix for fine atomization with adjustable air, fluid, and spray pattern controls. Digital Air Micrometer no need for an external gauge. Easy-pull trigger with feathering capability. Stainless Steel fluid passages and needle. Fully adjustable spray pattern for spraying large surfaces and tight areas. Working Pressure at nozzle: 7-8PSI. 600cc/20oz Plastic Cup. Stainless steel fluid passages and needle.

SAFETY INSTRUCTIONS AND WARNINGS

Symbol Usage

This manual contains important information that you need to know and understand in order to assure YOUR SAFETY and PROPER OPERATION OF EQUIPMENT. The following symbols help you recognize this information. Please read the manual and pay attention to these sections.

Save These Important Safety Instructions!

Read and understand all of these safety instructions. Be sure to retain them for future use.

WARNING!

WARNINGS INDICATE A CERTAINTY OR STRONG POSSIBILITY OF PERSONAL INJURY OR DEATH IF INSTRUCTIONS ARE NOT FOLLOWED.

CAUTION:

CAUTIONS INDICATE A POSSIBILITY OF EQUIPMENT DAMAGE IF INSTRUCTIONS ARE NOT FOLLOWED PROPERLY.

Note:

Notes give helpful information

Unpacking

After unpacking the product, inspect carefully for any damage that may have occurred during transit. Make sure to tighten fittings, bolts, etc., before putting unit into service.

WARNING!

DO NOT OPERATE TOOL IF DAMAGED DURING SHIPPING, HANDLING OR USE. DAMAGE COULD RESULT IN BURSTING AND CAUSE INJURY OR PROPERTY DAMAGE.

General safety Information

1. Read all manuals included with this product carefully. Be thoroughly familiar with the controls and the proper use of the equipment.

2. Follow all local electrical and safety codes as well as the United States National Electrical Codes (NEC) and Occupational Safety and Health Act (OSHA).

WARNING!

USE A FACE MASK/RESPIRATOR AND PROTECTIVE CLOTHING WHEN SPRAYING. ALWAYS SPRAY IN A WELL VENTILATED AREA TO PREVENT HEALTH AND FIRE HAZARDS. REFER TO MATERIAL SAFETY DATA SHEETS (MSDS) OF SPRAY MATERIAL FOR DETAILS.

WARNING!

NEVER SPRAY CLOSER THAN 25 FEET TO THE COMPRESSOR! IF POSSIBLE, LOCATE COMPRESSOR IN SEPARATE ROOM. NEVER SPRAY INTO THE COMPRESSOR, COMPRESSOR CONTROLS OR THE MOTOR.

3. Do not smoke or eat when spraying paint, insecticides, or other flammable substances.

WARNING!

DO NOT SPRAY FLAMMABLE MATERIALS IN VICINITY OF OPEN FLAME OR NEAR IGNITION SOURCES. MOTORS, ELECTRICAL EQUIPMENT AND CONTROLS CAN CAUSE ELECTRICAL ARCS THAT WILL IGNITE A FLAMMABLE GAS OR VAPOR. NEVER STORE FLAMMABLE LIQUIDS OR GASES IN THE VICINITY OF THE COMPRESSOR.

WARNING!

DO NOT MISUSE THIS PRODUCT. EXCESSIVE EXPOSURE TO VIBRATION, WORK IN AWKWARD POSITIONS, AND REPETITIVE WORK MOTIONS CAN CAUSE INJURY TO HANDS AND ARMS. STOP USING ANY TOOL IF DISCOMFORT, NUMBNESS, TINGLING OR PAIN OCCUR, AND CONSULT A PHYSICIAN.

4. When spraying and cleaning, always follow the instructions and safety precautions provided by the material manufacturer (Refer to MSDS).

WARNING!

DO NOT SPRAY ACIDS, CORROSIVE MATERIALS, TOXIC CHEMICALS, FERTILIZERS OR PESTICIDES. USING THESE MATERIALS COULD RESULT IN DEATH OR SERIOUS INJURY.

5. Keep visitors away and NEVER allow children or pets in the work area.

WARNING!

NEVER AIM OR SPRAY AT YOURSELF OR ANYONE ELSE OR SERIOUS INJURY COULD OCCUR.

6. Always work in a clean environment. To avoid injury and damage to the work-piece, do not aim the spray gun at any dust or debris.

CAUTION:

DO NOT USE PRESSURE THAT EXCEEDS THE OPERATING PRESSURE OF ANY OF THE PARTS (HOSES, FITTINGS, ETC.) IN THE PAINTING SYSTEM.

CAUTION:

KEEP HOSE AWAY FROM SHARP OBJECTS. BURSTING AIR HOSES MAY CAUSE INJURY. EXAMINE AIR HOSES REGULARLY AND REPLACE IF DAMAGED.

7. Always use a pressure regulator the air supply to the spray gun.

CAUTION:

FAILURE TO INSTALL APPROPRIATE WATER/OIL REMOVAL EQUIPMENT MAY RESULT IN DAMAGE TO MACHINERY OR WORK-PIECE.

Introduction

The spray gun is a vital link in any finishing application. In addition to operating the spray gun properly, techniques of surface preparation and paint preparation must be understood. These instructions will explain the differences among various spray technologies and serve as a guide in the proper operation and techniques of spray painting. Refer to the Replacement Parts Manual for model specific information.

SPRAY GUN TERMS

Atomization - Conversion of bulk liquid to spray droplets (mist).

Bleeder – In this mode, air passes continuously through the gun whether spraying or not. This mode is generally used when the air is supplied by a continuously running compressor that does not have a tank.

Bleeder/Non-Bleeder – Indicates whether air flows through the gun continuously or as the trigger is pulled.

External Mix – Process where the air and paint are mixed just after leaving the nozzle. This type of mix should be used for fast drying paints and when a high quality finish is needed.

Feed – Method used to bring paint into the gun for spraying.

Fluid Control Knob – Used to control the amount of paint being mixed with air.

Gravity Feed – Method of paint feed similar to the siphon feed method. However, the cup is inverted to create a positive fluid pressure at the nozzle.

Internal Mix – Process where the air and paint are mixed inside the air cap just before being sprayed. This method is best for heavy bodied, slow drying paints and can only be used with the pressure feed method. Do not use fast drying paints with internal mix. The paint will dry inside and quickly clog the air cap.

Mix – The mixing of paint and air when spraying.

Non-Bleeder – In this mode, air flows only when the trigger is pulled. This type of operation is used with a compressor equipped with a tank or with a large factory air system.

Paint Tank – An auxiliary pressurized paint reservoir that allows continuous spraying of large amounts of paint with- out stopping for refills as with a canister. It also allows using the spray gun at any angle without causing paint to drip.

Pattern Control Knob – Used to form the proper pattern (size and shape) of paint as it is sprayed from the gun to the work-piece.

Pressure Feed – Method of paint feed where a canister or paint tank is pressurized to force paint to the gun. Either internal or external mix air caps are

used with this method. Pressure feed is generally used for spraying heavy bodied paints or for large size projects.

Siphon Feed – Method of paint feed where atmospheric pressure creates a partial vacuum to siphon paint to the gun. Only external mix air caps are used with this method. Siphon feed is used with light bodied paints.

Viscosity – A measurement of the resistance to the flow of liquids.

CONVENTIONAL VS HVLP

Conventional spray guns use a much higher air cap pressure to atomize paint than HVLP spray guns. This results in more overspray and lower transfer efficiency.

HVLP, electrostatic and airless processes are currently the only compliant spray methods that meet the strict 65% transfer efficiency criteria required by some air quality management districts. This enhanced transfer efficiency results in a significant material savings com- pared to conventional spraying. Check local, state and national regulations that may be in effect before performing any spraying operations.

HVLP spraying is a growing trend in the finishing industry due to its environmental friendliness. By definition, dynamic air pressures in the air cap must be 10 psi or less to qualify as HVLP. A soft, low velocity pattern is produced which increases control and reduces bounce-back and overspray (See Figure 1). For these reasons, HVLP is also well suited for spraying parts with recessed areas.

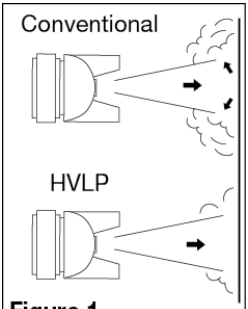


Figure 1

Spray Gun Set-up

The pressure for atomization is controlled at the air source. The amount of fluid is adjusted by the fluid control knob, the paint viscosity and the air pressure.

The gravity feed cup screws onto the top of the gun body creating a positive fluid pressure in the nozzle (See Figure 2).

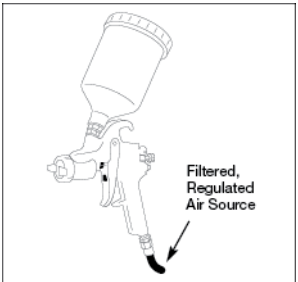


Figure 2 - Gravity Feed Cup Set-up

PREPARATION

1. Thoroughly mix and thin paint in accordance with the paint manufacturer's instructions. Most materials will spray readily if thinned properly.
2. Strain material through cheese cloth or a paint strainer.
3. Fill the canister about 3/4 full and start the air compressor.
4. Setup a piece of cardboard or other scrap material to use as a target and adjust for best spray pattern.
5. Test the consistency of the material by making a few strokes on a cardboard target. If material still appears too thick, add a small amount of thinner. **THIN WITH CARE!!** Do not exceed paint manufacturer's thinning recommendations.

FAN DIRECTION

The direction of the fan (horizontal or vertical) can be changed by loosening the lock ring and turning the air cap 90 degrees (See Figure 3). Hand tighten lock ring after adjustment.

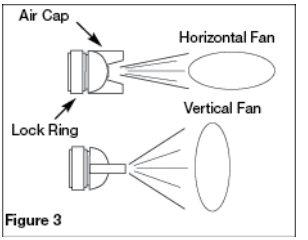


Figure 3

PATTERN ADJUSTMENT

1. Adjust air pressure to the spray gun according to the recommendations supplied with the spray material. This air pressure usually falls between 40 - 60 psi.

WARNING!

DO NOT EXCEED SPRAY GUN MAXIMUM PRESSURE.

Adjust air pressure with the trigger pulled and air control knob (if applicable) fully open. If reduced air pressure is desired for some areas of the spray job, use the air compressor regulator or air control knob to reduce pressure as necessary (See Figure 4).

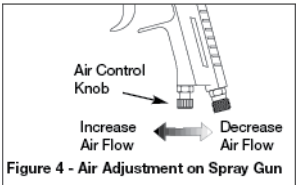


Figure 4 - Air Adjustment on Spray Gun

2. Set pattern size to desired shape. For full pattern, open pattern control knob by turning counterclockwise. For a round pattern, turn pattern control knob clockwise (See Figure 6).

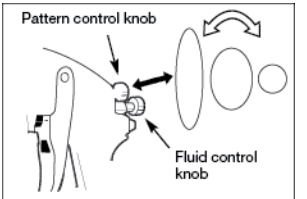


Figure 6 - Pattern Size

3. Turn fluid control knob fully clockwise until closed (See Figure 6).

4. Trigger a short burst while turning fluid control knob counterclockwise. Observe the spray pattern on the target and adjust the fluid control knob until the desired pattern (atomization) is obtained (See Figure 7).

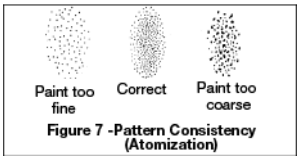


Figure 7 -Pattern Consistency (Atomization)

   If the spray is too fine (excessive over-spray), caused by too much air for the amount of paint being sprayed, reduce the air pressure or open the fluid control to spray more material.

   If the spray is too coarse (spitting globs), reduce the amount of material with the fluid control knob or thin the paint.

5. The fluid control knob can be used to finely adjust pattern consistency.

Before spraying the work-piece, practice a few minutes on a cardboard target to ensure the pattern size and consistency are set correctly.

Operation

1. Begin spraying. Always keep the gun at right angles to the work (See Figure 8).

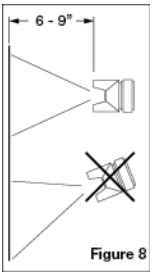


Figure 8

2. Keep the nozzle about 6 to 9 inches from the work surface throughout the stroke and always keep the gun in motion while spraying. Stopping gun movement in mid-stroke will cause a build-up of paint and result in runs. Do not fan the gun from side to side while painting. This will cause a build-up of paint in the center of the stroke and an insufficient coating at each end (See Figure 9).

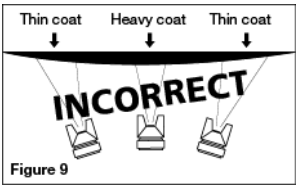


Figure 9

3. Trigger the gun properly. Start the gun moving at the beginning of the stroke **BEFORE SQUEEZING THE TRIGGER** and release the trigger **BEFORE STOPPING GUN MOVEMENT** at the end of the stroke. This procedure will feather (blend) each stroke with the next without showing overlap or unevenness (See Figure 10).

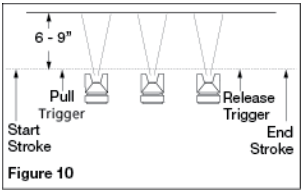


Figure 10

4. The amount of paint being applied can be varied by the speed of the stroke, distance from the surface and adjustment of the fluid control knob.

5. Overlap strokes just enough to obtain an even coat (See Figure 11).

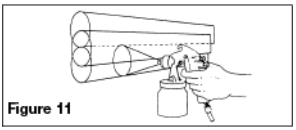


Figure 11

NOTE:
Two thin coats of paint will yield better results and have less chance of runs than one heavy layer.

6. Use a piece of cardboard as a shield to catch overspray at the edges of the work to protect other surfaces. Use masking tape to cover other areas if needed.

Maintenance

DAILY CLEAN-UP

Local codes may require specific cleaning methods and equipment. Follow local codes and paint manufacturer's recommendations for the use and disposal of spray materials and solvent.

CAUTION:
CLEAN SPRAY GUN IMMEDIATELY AFTER USE. PAINT AND OTHER MATERIALS DRY QUICKLY IN THE SMALL PASSAGES RENDERING GUN USELESS DUE TO THE DIFFICULTY OF REMOVING HARDENED PAINT FROM THE PASSAGES INSIDE THE GUN.

NOTE:
In the instructions below, the use of the word "solvent" refers to the specific solvent for the material used (example: lacquer thinner for lacquer, etc.).

1. Remove and empty the canister; then rinse with a solvent recommended for the paint or other material used.

2. Refill canister with clean solvent and attach to the gun. Spray solvent through the gun while shaking the gun vigorously. Wipe the gun exterior with a solvent soaked rag. Repeat until the gun is clean.

3. Remove the air cap and soak in solvent until clean. Use a small brush for stubborn stains if necessary. Toothpicks or small brushes may be used to clean air passages; however, **NEVER USE METAL OBJECTS TO CLEAN PRECISELY DRILLED PASSAGES. DAMAGED PAS- SAGES WILL CAUSE IMPROPER SPRAYING.**

4. Clean gaskets with a solvent soaked rag. To prevent equipment damage, **DO NOT IMMERSE GASKETS OR SPRAY GUN BODY IN SOLVENTS.**

5. After using water to clean out water based paints or materials, spray mineral spirits through the gun to prevent corrosion.

6. Use a non-silicone oil on all moving parts when reassembling. Use Vaseline® or light grease on all threaded connections prior to storage.

7. Clean and flush gun thoroughly to neutralize any contaminants corrosive to the spray gun.

PERIODIC CLEAN-UP

Due to improper cleaning and paint it may be necessary to inspect and clean the internal parts and the gun body.

1. Examine openings in air cap and fluid tip. If clogged, remove any o-rings and soak the air cap or fluid tip in solvent.

2. A brush or toothpick or something similar may be used to dislodge the dried paint from holes and pas- sages. **NEVER USE METAL OBJECTS TO CLEAN PRECISELY DRILLED PASSAGES. DAMAGED PASSAGES WILL CAUSE IMPROPER SPRAYING.**

3. Remove and check the fluid needle for excessive wear at the tip and straightness.

IMPORTANT: *If the needle tip is worn more on one side than the other, either the needle is bent or the gun body has been dropped or knocked out-of-line. There are no adjustments that can be made to a bent gun*

Test the needle by rolling on a flat surface. Replace if necessary.

4. Check and replace any damaged o- rings and seals. O-rings and seals can be wiped clean but not soaked in solvent.

5. Unscrew packing nuts and replace the packing ONLY if a leak will not stop when the nut is tightened (See Figure 5). Do not over-

tighten a packing nut because this will restrict movement of the needle.

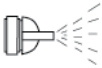
6. Re-assemble in reverse order of above and use a non-silicone oil on moving parts. Apply Vaseline® or light grease on threaded joints and hose connections.

STORING

1. When not using spray gun, turn the fluid adjustment knob counterclockwise to open which will reduce spring tension on needle fluid tip.

2. Spray gun **MUST BE** well cleaned and lightly lubricated.

Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Right or left heavy spray pattern	1. Holes in left or right side of the air cap are plugged 2. Dirt on left or right side of fluid tip	1. Clean. Use only non-metallic point 2. Clean
Top or bottom heavy spray pattern	1. Dried material at top or bottom of fluid tip 2. Loose air cap or dirty seat 3. Air cap plugged	1. Clean 2. Clean and tighten 3. Clean. Use only non-metallic point
Split spray pattern	1. Fan pattern open too far 2. Fluid turned in too far 3. Atomization air too high	1. Partially close the pattern adjustment 2. Increase fluid 3. Reduce atomization air pressure
Center heavy spray pattern	1. Fan adjustment partially closed 2. Material too thick 3. Atomization pressure too low	1. Open fan pattern adjustment 2. Thin to proper viscosity 3. Increase atomization pressure
 Sputtering spray	1. Material level too low 2. Container tipped too far 3. Loose fluid inlet connection 4. Loose or damaged fluid tip/seat 5. Dry or loose fluid needle packing nut 6. Air vent clogged	1. Refill 2. Hold more upright 3. Tighten 4. Adjust or replace 5. Lubricate and or tighten 6. Clear vent hole
Fluid leaking from packing nut	1. Packing nut loose 2. Packing worn or dry	1. Tighten, but do not restrict needle 2. Replace or lubricate (non-silicone oil)
Air leaking from air cap without pulling trigger	1. Sticking air valve stem 2. Contaminate on air valve or seat 3. Worn or damaged air valve or seat 4. Broken air valve spring 5. Bent valve stem	1. Lubricate 2. Clean 3. Replace 4. Replace 5. Replace
Fluid leaking from fluid tip of pressure feed spray gun	1. Packing nut too tight 2. Fluid tip worn or damaged 3. Foreign matter on tip 4. Fluid needle spring broken	1. Adjust 2. Replace tip and/or needle 3. Clean 4. Replace
Excessive overspray	1. Too high atomization pressure 2. Too far from work surface 3. Improper stroking (arcing, gun motion too fast)	1. Reduce pressure 2. Adjust to proper distance 3. Move at moderate pace, parallel to surface
Will not spray	1. No pressure at gun 2. Fluid control not open enough 3. Fluid too heavy	1. Check air lines 2. Open fluid control 3. Thin fluid or change to pressure feed system

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This information applies to Smarter Tools products purchased in the USA and Canada.

January 2012

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De enero 2012

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